

S/135/61/000/004/003/012
A006/A101

Reconditioning of Carburized Parts by Electric-Pulse Building-Up

ing-up was performed on the YAHK-5 (UANZh-5) machine with OBC (OVS) wire of 1.6 mm in diameter under the following conditions: 140 - 150 amp current; 12 v. arc voltage; 1.1 m/min electrode feed rate; building - up pace : 1.7 mm/rev; rotation speed of part - 11 rpm; inductance - 4 PCT₃ -34 (RSTE-34) coilings. The consumption of the cooling liquid (Q) varied from 0.1 to 0.6 l/min. A chemical analysis of the built-up parts showed that when building up with OVS wire under the aforementioned conditions cracks appeared at $Q > 0.25$ l/min; at $Q = 0.3$ l/min cracks formed systematically. The location of the cracks indicate that they were caused by tensile tangential residual stresses, formed on the external surface as a result of building-up process. The authorz determined residual stresses on pins cut off the cross pieces using the Zaks method. The specimens were drilled from 8 to 16 mm, then bored out to 19 mm. The residual stresses were determined by consecutive grinding of the specimens along the external diameter to 0.25 mm depth. The nature of changes and magnitude of residual stresses in the remaining section was determined by interpolation from the equilibrium condition, i.e., the equivalence of the sum of positive and negative surfaces of the graph of residual stresses (Fig. 5). The experimental investigation yielded the following results: When

Card 2/6

S/135/61/000/004/003/012
A006/A101

Reconditioning of Carburized Parts by Electric-Pulse Building-Up

building-up worn out carburized steel parts under conventional conditions, the microhardness of the built-up metal is non-uniform and varies within 330 - 750 kg/mm² depending on the consumption of the cooling liquid. Burning-out of carbon during the building-up process decreases with a higher consumption of the cooling liquid. Minimum carbon content in the built-up layer at Q = 0.1 l/min is 0.56%. As a result of non-uniform heating of the part built-up by electric pulse process a redistribution of residual tangential stresses over the section takes place. In the built-up layer residual tensile stresses arise which amount to 7.5 - 42.5 kg/mm² depending on the consumption of the cooling liquid. At Q > 0.25 l/min these stresses exceed the ultimate strength of the built-up layer. This causes the formation of cracks passing into the base metal. Minimum residual stresses were observed when building-up with Q = 0.1 l/min; in this case cracks were not revealed. Heat treatment (quenching, or carburizing and quenching) of the part built up with small amounts of the cooling liquid considerably increases the magnitude and stability of hardness and entails satisfactory redistribution of residual stresses over the section. This promotes an increase of fatigue strength of the parts. For reconditioning of parts with a high strength reserve, subjected during operation to static load and low wear, it is recommended to use electric-

Card 3/6

8/135/61/000/004/003/012
A006/A101

Reconditioning of Carburized Parts by Electric-Pulse Building-Up

-pulse building up at $Q < 0.1 \text{ l/min}$ without subsequent heat treatment. The repair of parts with low strength reserve operating under variable load and considerable wear, can be effectively performed by building-up with low consumption of cooling liquid and subsequent heat treatment, i.e., carburizing with quenching and low-temperature tempering. (heating to 800°C , for 20 min. cooling in water, tempering at $180 - 200^\circ\text{C}$ for 1 h). A control of parts built-up by the described technology showed high wear resistance of the pins and sufficient fatigue strength of the parts. There are 7 figures and 4 Soviet references.

ASSOCIATION: Ukrdorstransnii

Card 4/6

S/135/61/000/004/003/012
A006/A101

Reconditioning of Carburized Parts by Electric-Pulse Building-Up

Figure 1:

Dependence of changes in the carbon content in building-up process on the consumption of cooling liquid

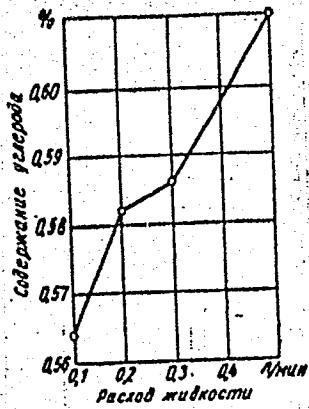
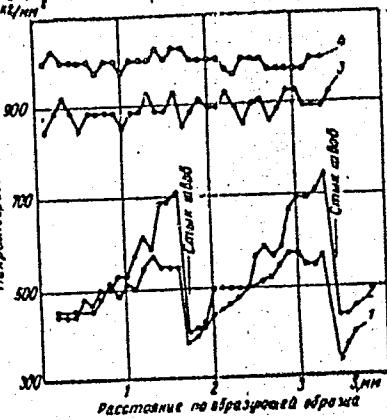


Рис. 1. Зависимость изменения содержания углерода в наплавке от расхода охлаждающей жидкости.

Card 5/6

Figure 2:

Microhardness of built-up layers at: 1 - $Q = 1$ l/min; 2 - $Q = 0.5$ l/min; 3 - $Q = 0.1$ l/min and quenching;
4 - $Q = 0.1$ l/min and carburizing with quenching

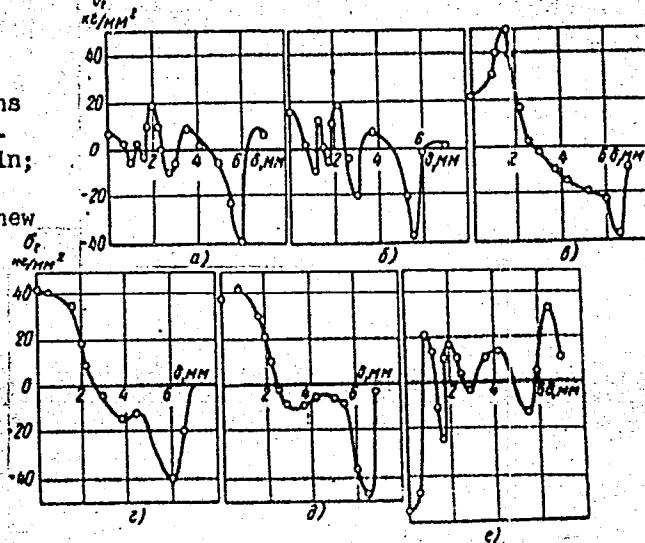


S/135/61/000/004/003/012
A006/A101

Reconditioning of Carburized Parts by Electro-Pulse Building-Up

Figure 5:

Residual stresses in built-up pins of a Cardan shaft cross-piece a - $Q = 0.1$ l/min; b - $Q = 0.15$ l/min; c - $Q = 0.2$ l/min; d - $Q = 0.25$ l/min; e - $Q = 0.3$ l/min; f - new cross piece.



Card 6/6

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8/20/62/145/006/011/015
B106/B144

AUTHORS: Zgonnik, V. N., Dolgoplosk, B. A., Corresponding Member AS
USSR, Kropachev, V. A., and Nikolayev, N. I.

TITLE: Some regularities observed in the polymerization of butadiene
under the action of catalytic systems containing cobalt

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 145, no. 6, 1962, 1285-1287

TEXT: The authors studied the polymerization of butadiene under the action of a homogeneous catalytic system consisting of a cobalt chloride-pyridine complex and diisobutyl aluminum chloride, using a technique already described (Vysokomolek. soyed., 4, no. 7 (1962)). With benzene as a solvent, temperatures between 5 and 50°C, and with contents of:
 1.2 moles/l butadiene, $2.1 \cdot 10^{-5} \text{ moles/l}$ CoCl_2Py_2 , $1.5 \cdot 10^{-2} \text{ moles/l}$
 $\text{Al(iso-C}_4\text{H}_9)_2\text{Cl}$, the yield of polymer was $\sim 40\%$. Table 1 gives the mean values from several determinations of the polymerization rate and molecular weight of polymer. These correspond with a total activation energy of 8.2 kcal/mole. The polymerization rate at 20°C is directly

Card 1/3

S/020/62/145/006/011/015

B106/B144

Some regularities observed in ...

proportional to the monomer concentration between 6 and 23 moles¹ butadiene on the one hand, and to the CoCl_2Py_2 concentration between $9 \cdot 10^{-6}$ and $7.6 \cdot 10^{-5}$ moles/l on the other hand. The molecular weight of the polymer is directly proportional to the monomer concentration. Experiments showed that many molecules of polymer were formed for each molecule of CoCl_2Py_2 . Chain rupture was found to be attended by a regeneration of the active centers. The distribution curves of the molecular weights of polybutadiene samples with a conversion < 10 % showed that the molecular weight increases and the distribution width decreases (M_w/M_n changes from 1.05 to 1.5) when the CoCl_2Py_2 content decreases. When using the catalytic system $\text{CoCl}_2\text{Py}_2\text{-Al(iso-C}_4\text{H}_9)_2\text{Cl}$, the distribution width of the molecular weight was found to increase as polymerization progresses. There are 4 figures and 3 tables. The English-language references are: G. J. Natta, Pol. Sci., 48, 150, 221 (1960); M. Gippin, Rubb. Age, 89, 802 (1961). f

Card 2/3

S/020/62/145/006/011/015

B106/B144

Some regularities observed in ...

ASSOCIATION: Institut vysokomolekulyarnykh soyedineniy Akademii nauk SSSR
(Institute of High-molecular Compounds of the Academy of Sciences USSR)

SUBMITTED: May 7, 1962

Table. 1. Legend: (1) Temperature, °C; (2) moles/cm³.sec.

Table 1

T·Pa, ① °C	W·10 ⁻⁴ , moles/cm ³ .sec ②	M _n ·10 ⁻⁴
5	0,78	396
20	2,53	159
35	5,02	115
50	8,80	82

Card 3/3

VOEONKOV, M.G.; KOLESOVA, V.A.; ZGONNIK, V.N.

Bis-(trialkylsilyl)phosphonates. Izv. AN SSSR Otd. khim. nauk
no.11:1363-1367 N '57. (MIRA 11:3)

1.Institut khimii silikatov AN SSSR.
(Phosphorus organic compounds)

Z GONNIK, V. N.

62-11-10/29

AUTHORS: Voronkov, M. G., Kolesova, V. A.,
Zgonnik, V. N.

TITLE: Bis- (Trialkylsilyl) Phosphinates (Bis-(trialkilsilil)
fosfinaty).

PERIODICAL: Izvestiya AN SSSR, Otdelenie Khimicheskikh Nauk, 1957,
Nr 11, pp. 1363-1367 (USSR)

ABSTRACT: Methods for the synthesis of bis-(trialkylsilyl)-phosphinates previously unknown by means of reaction of the phosphorous acid with trialkylchlorosilanes or trialkyl-koxysilanes were elaborated here and the spectra of their combination dispersion were investigated. In the spectrum of the bis-(trialkylsilyl)-ether of the phosphorous acid a series of frequencies in the area of $850 - 1050 \text{ cm}^{-1}$, in which occur deformation oscillations H - P - O (reference 6-10), was ascertained. But in this area are also the valence-oscillations C-C. The frequency of about 850 cm^{-1} , which is characteristical for trimethylphosphate $(\text{CH}_3\text{O})_3\text{P} = \text{O}$ but lacking in the triethylphosphate spectrum (reference 10), was here only observed in the spectra of

Card 1/2

ZGOMNIK, V.N.; DOLGOPLOSK, B.A.; NIKOLAYEV, N.I.; KROPACHEV, V.A.

Effect of water on the polymerization of butadiene on homogeneous
"cobalt" catalysts. Vysokom. soed. 7 no.2:308-311 F '65.
(MIRA 18:3)

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR.

NIKOLAYEV, N.I.; GELLER, N.M.; DOLGOPLOSK, B.A.; ZGONNIK, V.N.; KROPACHEV, V.A.

Polymerization of isoprene and butadiene under the effect of insoluble organolithium compounds. Vysokom. soed. 5 no.6:811-815 Je '63.
(MIRA 16:9)

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR.
(Butadiene) (Polymerization) (Lithium organic compounds)

ZGONNIK, V.N.; DOLGOPLOSK, B.A.; KROPACHEV, V.A.; NIKOLAYEV, N.I.

Some regularities in butadiene polymerization under the effect
of "cobaltic" catalytic systems. Dokl.AN SSSR 145 no.6:1285-
1287 Ag '62. (MIRA 15:8)

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR.
2. Chlen-korrespondent AN SSSR (for Dolgoplosk).
(Butadiene) (Polymerization) (Cobalt catalysts)

ZGONNIK, V.N.; DOLGOPLOSK, B.A.; NIKOLAYEV, N.I.; KROPACHEV, V.A.

Polymerization under the influence of homogeneous catalytic
"cobalt" systems. Vysokom. soed. 4 no.7:1000-1004 Jl '62.
(MIRA 15:7)

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR.
(Polymerization) (Cobalt compounds)

L 12433-63

EPR/EWP(j)/EPP(c)/EWT(m)/BDS ASD Pa-4/Pc-4/Pr-4

RM/WW

ACCESSION NR: AP3001148

S/0190/63/005/006/0811/C615

74

73

AUTHOR: Nikolayev, N. I.; Geller, N. M.; Dolgoplosk, B. A., Zgonnik, V. N.; Kropachev, V. A.

TITLE: Polymerization of isoprene and butadiene by insoluble organo-lithium compounds 1

SOURCE: Vyssokomolekulyarnye soyedineniya, v. 5, no. 6, 1963, 811-815

TOPIC TAGS: polymerization, isoprene, butadiene, methyllithium amide, dialkyl-lithium amide

ABSTRACT: Organic lithium compounds insoluble in hydrocarbons and monomers were selected so as to allow the polymerization process to proceed gradually, with a chance of formation of longer chains. Such lithium compounds could also be of higher purity to eliminate side reactions with the impurities. Polymerization of isoprene and butadiene in benzene or petroleum ether solutions was conducted in sealed ampules by standard methods, using methyllithiumamide and dialkyl-lithiumamide as catalysts. The obtained polymers were precipitated by ethanol and dried at 20C, and their viscosity and molecular weight determined. It was shown that methyllithiumamide leads to the formation of polyisoprene with 93-96% of 1,4-chains of 500 000--2 500 000 molecular weight, while dialkylolithiumamide

Card 1/2

L 12433-63
ACCESSION NR: AP3001148

produces a polyisoprene rich in 3,4-chains, the distribution of cis- and trans-forms being nearly equal. Under similar conditions both catalysts produced polybutadienes containing 85-89% of 1,4-units in their chains, with 10-54% of them in transconfiguration. Orig. art. has: 2 formulas and 2 tables.

ASSOCIATION: Institut vyssokomolekulyarnykh sovedineniy AN SSSR (Institute of High-Molecular Compounds, Academy of Sciences SSSR)

SUBMITTED: 09Nov61

DATE ACQ: 01Jul63

ENCL: 00

SUB CODE: 00

NO REF Sov: 003

OTHER: 003

Card 2/2

L 12433-63

EPR/EWP(j)/EPF(c)/EWT(m)/BDS ASD Ps-4/Pc-4/Pr-4

74

RM/WH

ACCESSION NR: AP3001148

S/0190/63/005/006/0811/0815

73

AUTHOR: Nikolayev, N. I.; Geller, N. M.; Dolgoplosk, B. A., Zgonnik, V. N.;
Kropachev, V. A.TITLE: Polymerization of isoprene and butadiene by insoluble organo-lithium
compounds

SOURCE: Vyssokomolekulyarnye soyedineniya, v. 5, no. 6, 1963, 811-815

TOPIC TAGS: polymerization, isoprene, butadiene, methyllithium amide, dialkyl-
lithium amide

ABSTRACT: Organic lithium compounds insoluble in hydrocarbons and monomers were selected so as to allow the polymerization process to proceed gradually, with a chance of formation of longer chains. Such lithium compounds could also be of higher purity to eliminate side reactions with the impurities. Polymerization of isoprene and butadiene in benzene or petroleum ether solutions was conducted in sealed ampules by standard methods, using methyllithiumamide and dialkyl-lithiumamide as catalysts. The obtained polymers were precipitated by ethanol and dried at 20C, and their viscosity and molecular weight determined. It was shown that methyllithiumamide leads to the formation of polyisoprene with 93-96% of 1,4-chains of 500 000--2 500 000 molecular weight, while dialkylolithiumamide

Card 1/2

L 12433-63
ACCESSION NR: AP3001148

produces a polyisoprene rich in 3,4-chains, the distribution of cis- and trans-forms being nearly equal. Under similar conditions both catalysts produced polybutadienes containing 85-89% of 1,4-units in their chains, with 40-54% of them in transconfiguration. Orig. art. has: 2 formulas and 2 tables.

ASSOCIATION: Institut vy*sokomolekulyarny*kh soyedineniy AN SSSR (Institute of High-Molecular Compounds, Academy of Sciences SSSR)

SUBMITTED: 09Nov61

DATE ACQ: 01Jul63

ENCL: 00

SUB CODE: 00

NO REF Sov: 003

OTHER: 003

Card 2/2

ZGONNIK, V. N.; KROPACHEV, V. A.; NIKOLAYEV, N. I.; DOLGOPLOSK, B. A.

Reactions of organometallic compounds with salts of heavy metals.
Report No.4: Reaction between ethyllithium and titanium trichloride.
Izv. AN SSSR. Otd. khim. nauk no.12:2157-2161 D 160. (MIRA. 13:12)

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR.
(Lithium) (Titanium chloride)

ZASOWSKI, Andrzej; DOLEZALOWA, Marta; PEIKER, Wojciech;
ZGORNIAK-NOWOSIELSKA, Izabela

Routine determination of the effect of associated antibiotics
in vitro. Pol. tyg. lek. 18 no.15:551-555 8 Ap '63.

1. Z II Kliniki Chirurgicznej AM w Krakowie; kierownik: prof.
dr J. Oszacki, z Pracowni Bakteriologicznej Kliniki Chorob
Zakaznych AM w Krakowie; kierownik: prof. dr Wl. Fejkiel, z
Zakladu Mikrobiologii Lekarskiej AM w Krakowie; kierownik:
prof. dr Z. Przybylkiewicz.

(PHARMACOLOGY) (PENICILLIN) (STREPTOMYCIN)
(CHLORAMPHENICOL) (CHLORTETRACYCLINE)
(OXYTETRACYCLINE) (DRUG RESISTANCE, MICROBIAL)

BULANDA, Maria; ZGORNIAK-NOWOSIELSKA, Izabela

Sensitivity to antibiotics of pathogenic microorganism of the
human eye (resistance in vitro and in clinical conditions). Klin.
oczna 30. no.2:175-183 '60.

1. Z Kliniki Chorob Oczu A.M. w Krakowie: Kierownik: prof.dr med.
M. Wilczek. Z Zakladu Mikrobiologii Lekarskiej A.M. w Krakowie.
Kierownik: prof.dr med. Z. Przybylkiewicz.
(ANTIBIOTICS pharmacol.)
(EYE microbiol.)

ZGORNIAK-NOWOSIELSKA, Izabella; DOLEZAL, Marta

Antibiotic resistance of staphylococci in the years 1955-1957.
Polski tygod. lek. 14 no.2:75-80 12 Jan 59.

1. Z Zakladu Mikrobiologii Lekarskiej A. M. w Krakowie; kierownik:
prof. dr Z. Przybylkiewicz. Adres: Krakow, Zaklad Mikrobiologii
Lekarskiej A. M.

(ANTIBIOTICS, eff.

on micrococci, resist. (Pol))

(MICROCOCCUS, eff. of drugs on
antibiotics, resist. of micrococci (Pol))

PRZYBYLKIEWICZ, Zdzislaw; ZGORNIAK-NOWOSIELSKA, I.

Studies on in vitro sensitivity of strains of *Micrococcus pyogenes* var. *aureus* to tetracycline, oleandomycin and mixtures of tetracycline and oleandomycin. Polski tygod. lek. 14 no.49:2143-2145 7 Dec 59.

1. (Z Zakladu Mikrobiologii Lekarskiej; A. M. w Krakowie, kierownik:
prof. dr Z. Przybylkiewicz).

(OLEANDOMYCIN, pharmacol.) (TETRACYCLINE, pharmacol.)
(STAPHYLOCOCCUS, pharmacol.)

87168

S/062/60/000/012/007/020
B013/B055

53700

AUTHORS: Zgonnik, V. N., Kropachev, V. A., Nikolayev, N. I.,
and Dolgoplosk, B. A.TITLE: Reactions of Organometallic Compounds With Heavy-metal
Salts. IV. Interaction of Ethyl Lithium With Titanium
TrichloridePERIODICAL: Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk,
1960, No. 12, pp. 2157-2161

TEXT: The present work is a study of the reaction of ethyl lithium with the purple, crystalline α -modification of titanium trichloride in hydrocarbon mediums. The reaction was performed at 0, 20, 55, and 100°C applying various molar ratios of ethyl lithium and titanium trichloride. The yields and compositions of the gaseous reaction products are summarized in Table 1. It can be seen that the ratio of the reactants has a stronger influence on the composition of the gases than the reaction temperature. The yields of gaseous reaction products increase with increasing temperature and at 100°C approach the theoretical amount with regard to the initial ethyl lithium. X

Card 1/3

87168

Reactions of Organometallic Compounds With
Heavy-metal Salts. IV. Interaction of Ethyl
Lithium With Titanium Trichloride

S/062/60/000/012/007/020
B013/B055

Even at low temperatures, gas formation occurs within a few minutes. Gas yields are about 10-20% at low temperatures (Table 1) and the gas contains mainly ethane. This might give rise to the conclusion that simultaneously formed ethylene is partly polymerized. It was shown, however, that ethylene polymerization does not occur. At temperatures around 100°C and above the possibility of thermal decomposition (Ref. 9) must be taken into consideration. The reaction of ethyl lithium with titanium trichloride is practically instantaneous at 100°C, whereas the thermal decomposition under the same conditions reaches an extent of 25% only after 14 h. The composition of the gases obtained in these two cases is shown in Table 2 for which two characteristic experiments were selected. Hydrolysis of the reaction products of ethyl lithium and titanium trichloride yielded large quantities of hydrogen which in some cases by far exceeded the stoichiometric amount. The precipitate dissolves during hydrolysis. This indicates that the reaction products contain no metallic titanium. Lithium hydride, formed during the decomposition of ethyl lithium according to the scheme $\text{LiC}_2\text{H}_5 \rightarrow \text{LiH} + \text{CH}_2 = \text{CH}_2$, may constitute another source of hydrogen. This decomposition actually occurs above 100°C. As has been mentioned, the decomposition of ethyl lithium

Card 2/3

Reactions of Organometallic Compounds With Heavy-metal Salts. IV. Interaction of Ethyl Lithium With Titanium Trichloride 87168
S062/60/000/012/007/020
B013/B055

proceeds much more rapidly and at lower temperatures in the presence of titanium trichloride. At 55-100°C this reaction is very rapid. In experiments at these temperatures, 1 mole titanium trichloride caused decomposition of up to 7 mole ethyl lithium (Table 3). The results obtained show that titanium halides catalyze the decomposition of ethyl lithium to ethylene and lithium hydride. There are 1 figure, 3 tables, and 11 references:
2 Soviet, 3 German, and 7 US.

ASSOCIATION: Institut vysokomolekulyarnykh soyedineniy Akademii nauk SSSR
(Institute of High-molecular Compounds of the Academy of Sciences USSR)

SUBMITTED: July 11, 1959

Card 3/3

MASIOR, J.; PLATEK, D.; ZGORNIAK, M.

Repeated thrombosis of the same coronary artery. Kardiol. Pol.
8 no.3:275-276 '65.

1. Z Oddzialu Chrorob Wewnetrznych Szpitala Powiatowego w Gorlicach
(Ordynator: dr. J. Masior).

ZGORNIAK-NOWOSIELSKA, I.

POLAND

ZASOWSKI, Andrzej, DOLEZALOWA, Marta, PEIKER, Wojciech, and ZGORNIAK-NOWOSIELSKA, Izabela; Second Surgical Clinic (II Klinika Chirurgiczna) (Director: Prof. Dr. J. OSZACKI), Bacteriology Laboratory (Pracownia Bakteriologiczna) of the Clinic of Infectious Diseases (Klinika Chorob Zakaznych) (Director: Prof. Dr. Wl. FEJKIEL), and the Department of Medical Microbiology (Zaklad Mikrobiologii Lekarskiej) (Director: Prof. Dr. Z. PRZYSYKIEWICZ), all of the AM [Akademia Medyczna, Medical Academy] in Krakow

"Routine In Vitro Determination of the Effect of Antibiotic Combinations."

Warsaw, Polski Tygodnik Lekarski, Vol 18, No 15, 8 Apr 63,
pp 551-555.

Abstract: [Authors' English summary modified] In studying the effect in vitro of antibiotic combinations on surgical infections, the authors could not establish any correlation either with the antibiotics or bacterial strains, and recommend individual assays in vitro prior to use in therapy, using the paper strips method. Of the 17 references, two (12) each are Polish and German, one French, and 12 English.

1/1

PRZYBYLKIEWICZ, Zdzislaw; REISS, Juliusz; LACHOWICZ, Tadeusz;
ZGORNIAK-NOWOSIELSKA, Izabela

Characteristics of the bacterial flora isolated from patients
treated in the pediatric clinic of the Academy of Medicine in
Krakow with special reference to staphylococci. Przegl.epidem.
15 no.2:101-116 '61.

1. Z Zakladu Mikrobiologii Lekarskiej AM w Krakowie Kierownik
Zakladu: prof. dr Zdzislaw Przybylkiewicz.

(STAPHYLOCOCCUS) (HOSPITALS)

ZGORNIAK-NOWOSIELSKA, Izabella; REISS, Juliusz; CHAJA, Wieslaw

Antibiotic resistance of bacterial strains isolated from surgical patients and carriers. Polski przegl. chir. 30 no.4:375-387 Apr 58.

1. Z Zakladu Mikrobiologii Lekarskiej A. M. w Krakowie Kierownik: prof. dr Z Przybylkiewicz z i Kliniki Chirurgicznej A. M. w Krakowie Kierownik: prof. dr J. Bogusz Krakow, ul. Smolensk 11, m. 1.

(ANTIBIOTICS, effects

resist. of bact. strains isolated from pus specimens (Pol))

(BACTERIA, effect of drugs on

antibiotic resist. of strains isolated from pus specimens (Pol))

ZGORSKI, Z.; CYRANKOWSKA, M.

A new application of the extraction-polarographic method. I. Determination of copper and lead in ferrocadmic masses. p. 495.

CHEMIA ANALITYCZNA. (Komisja Analitczna Polskiej Akademii Nauk i Naczelnego Organizatora Techniczna) Warszawa, Poland, Vol. 3, no. 3/4 1958

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 7, July 1959

Uncl.

ZGORSKIY, D.I. [Zhors'kyi, D.I.] (Kiyev)

Bending of thin plates clamped in an elastic frame contour.
Prykl. mekh. 10 no.4:368-374 '64, (MIRA 17:10)

1. Kiyevskiy avtodorozhnnyy institut.

SZYNANSKA, Urszula; ZGORZALEWICZ, Bozena

Tuberculin tests in infectious hepatitis in children. Pediat pol
36 no.9:927-932 S '61.

1. Z Oddzialu Zakaznego Wojewodzkiego Szpitala Dzieciecego w Poznaniu
Dyrektor Szpitala: dr med. M. Stabrowski.

(HEPATITIS INFECTIOUS)
(TUBERCULIN REACTION in inf & child)

ZGORZALEWICZ, Tadeusz ,lek. med.

Iron metabolism during pregnancy. Pol. tyg. lek. 19 no.43:
1643-1645 26 0 '64

l. Z Oddzialu Polozniczo-ginekologicznego Szpitala Wojewodzkiego
w Zielonej Gorze (ordynator: lek. med. T. Zgorzlewicz).

ZGORZELAK, Jerzy, inz.

"Steel-joint chains and chain transmissions" by [dr inz.]
H.G. Rachner. Reviewed by Jerzy Zgorzelak. Przegl mech
22 no.6:192 25 Mr '63.

ZGORZALEWICZ, Tadeusz

Atresia of the hymen. Gin. polska 32 no.4:539-546 '61.

1. Z Oddzialu Ginekologiczno-Położniczego Szpitala Wojewódzkiego
w Zielonej Górze Ordynator: T. Zgorzalewicz
(HYMEN abnorm)

ZGORZALEWICZ, Tadeusz

Ectopic pregnancy at term. Polski tygod. lek. 16 no.30:1159-1162
Jl. '61.

1. Z Oddzialu Polozniczo-Ginekologicznego Szpitala Wojewodzkiego w
Zielonej Gorze; ordynator: lek med. Zgorzalewicz, dyrektor: dr med.
Z. Pieniezny.

(PREGNANCY ECTOPIC case reports)

ZGORZELAK, J.; GIRELWSKI, K.

Production costs affected by the mechanization of machining. p. 210.

PRZEGLAD MECHANICZNY. (Stowarzyszenie Inżynierów i Techników Mechaników Polskich)
Warszawa, Poland. Vol. 18, no. 7, April 1959.

Monthly List of East European Accessions (EEAI) LC. Vol. 8, no. 7, July 1959.

Uncl.

L G C A L A Z R A H K

PRZESMYCKI, Feliks; SOBROWOLSKA, Halina; FELTYNOWSKI, Antoni; STANCZYK,
Regina; WALKOWSKA, Elzbieta; ZYCH, Zofia; (techniczny wspolodzial)
CIEPINSKA, Swietlana; ZGORZELECKA, Krystyna

Laboratory characteristics of the epidemic of influenza in 1953.
Med. dosw. mikrob. 6 no.3:241-251 1954.

1. Z Oddzialu Wirusologii Panstwowego Zakladu Higieny. Kierownik:
prof. dr.F. Przesmycki.
(INFLUENZA, epidemiology,
Poland, statist. analysis)

ZGORZELSKA, Krystyna
SKWARCZEWSKA-STYPIUKOWSKA, Helena; ZGORZELSKA, Krystyna

Clinical picture of mumps during 1952, Przegl. epidem. 8 no.2:
117-120 1954.

1. Na podstawie materialu VI Oddzialu Szpitala Zakaznego No. 1
w Warszawie.

(MUMPS, epidemiology,
Poland, clin. characteristics of epidemic)

ZGORZELESKI, Maciej, dr inż.

Analysis of the properties of a thermoaelectronic generator with
crossed fields of the magnetic triode. Przegl. mech. 24 no.4:115-
116 25 F '65.

1. Department of Theory of Thermal Engines of the Warsaw Technical
University.

ZGORZELSKI, M.

Experimental investigations of the magnetic triode type
thermionic energy converter. Bul Ac Pol tech 12 no.6:449-455 '64.

1. Institute of Heat Engineering, Technical University, Warsaw.
Presented by B. Stefanowski.

ZGORZECKI, Maciej, mgr inz.

Measurements of high temperatures in a gas stream. Pt. 1. Pomiary
8 no.1:21-24 Ja '62.

1. Zaklad Techniki Cieplnej, Politechnika, Warszawa.

P/034/62/000/002/002/004
D265/D302

AUTHOR: Zgorzelski, Maciej, Master of Engineering

TITLE: Measurement of high temperatures in a gas stream - Part II

PERIODICAL: Pomiary, automatyka, kontrola, no. 2, 1962, 64-67

TEXT: In this paper the author continues to describe various methods of high temperature measurement in a gas stream. The acoustic method which depends on the degree of dissociation and ionisation finds only limited application. Optical methods are more reliable and are given more detailed consideration. The sodium line-reversal method (1600-2700°C) is described and the method based on direct measurement of the brightness of the radiation energy is illustrated. The photopyrometric method is based on the fixed relationship between the amount of silver reduced and the energy incident on the silver emulsion when a radiating body is photographed (200-6000°K). By introducing a small amount of Li, Na, K, etc., to the gas stream and subjecting it to microwaves, the power of the latter is observed to be reduced, depending on the gas temperature. This

Card 1/ 2

Measurement of high ...

P/034/62/000/002/002/004
D265/DJ02

phenomenon is utilized in the method based on absorption of the energy of radiation (2000-3000 K). The measurement of the gas density using x-ray or d-particle radiation provides another method of temperature estimation. The various methods are compared and discussed. There are 6 figures and 8 non-Soviet-bloc references. The 4 most recent references to the English-language publications read as follows: J. Warshawsky, ISA Journal, no. 11, 1958; J. Warshawsky 'Pyrometry of high velocity gases', Sixth Symposium on Combustion, Reinhold Publ. Co., New York, 1957; W.A. Popow, Photopyrometric determination of the temperature of a burning moving particle, Sixth Symposium on Combustion, Reinhold Publ. Co., New York, 1957; J. Tyroler, A self-calibrating high speed photo-graphic pyrometer, Sixth Symposium on Combustion, Reinhold Publ. Co., New York, 1957.

ASSOCIATION: Zaklad techniki cieplnej politechniki Warszawskiej
(Institute of Heat Technology of the Warsaw Polytechnic Institute)

Card 2/2

P/034/62/000/001/001/004
D242/D303

AUTHOR: Zgorzelski, Maciej, Master of Engineering

TITLE: Measuring high temperatures in gas streams, Part I.

PERIODICAL: Pomiary, Automatyka, Kontrola, no. 1, 1962, 21-24

TEXT: This is a review of the latest methods and instruments used in measuring high temperatures in high speed gas streams. The review is based mainly on Western literature. The author stresses the lack of standards, which makes it impossible to compare and calibrate instruments. There are several methods of measurement.
1) Thermoelectric method; 2) Resistance method; 3) Pneumatic method;
4) Sonic method; 5) Optical method: a) spectroscopic, b) photographic;
6) Energy absorption method: a) short wave, b) α particles,
c) X-rays. Then the author describes, in turn, the first three methods and instruments. The author points out that the pneumatic method gives very good agreement with other methods although it does not measure the temperature of the gas, but mass flow and pressure just before entering the nozzle. This method has certain disadvantages, such as condensation and precipitation of soot on nozzle

Card 1/2

Measuring high temperatures in ...

P/034/62/000/001/001/004
D242/D303

walls. There are 8 figures and 14 references: 3 Soviet-bloc and 11 non-Soviet-bloc. The 4 most recent references to the English-language publications read as follows: I. Warshawsky, Measurement of rocket exhaust gas temperatures, JSA Journal, v. 5, no. 11, 1958; H.F. Mullikin, Gas temperature measurements and the high velocity thermocouple. Temperature, its measurement and control in science and industry, v. 1, Reinhold Publ. Co. 1941; G. Matton, C. Fouré, Thermoelectric probes for measuring high temperatures in gas streams, Sixth symposium on Combustion, Reinhold Publ. Co., 1957; L.N. Krause, R.C. Johnson, F.E. Glawe, A cooled gas pyrometer for use in high temperature gas streams, NACA Technical Note 4383, 1958.

ASSOCIATION: Zakład techniki cieplnej politechniki Warszawskiej
(Department of Heat Technology, Warsaw Polytechnic Institute)

Card 2/2

ZGORZELSKI, Maciej (Warszawa)

Analysis of a magnetic tridode as a generator for direct conversion of heat into electric power. Archiw bud masz 10 no. 3: 315-342 '63.

ZGORZELSKI, Maciej

Thermoelectronic vacuum generators. Przegl elektrotechn 38
no.8:326-331 Ag '62.

1. Katedra Teorii Maszyn Cieplnych, Politekhnika, Warszwa.

ZGORZELECKI, Maciej, mgr.inz.

High temperature measurements in gas flow. Pt.2. Pomiar
automatyka Kontrola 8 no.2:64-67 F '62.

1. Zaklad Techniki Cieplnej, Politechnika, Warszawa.

DAROCHA, Tadeusz; ZGORZELSKI, Stanislaw; TROJANOWSKI, Andrzej

Intrahepatic stasis jaundice as a postmedication complication.
Pol. przegl. chir. 35 no.7/8:750-751 '63.

l. z Oddzialu Chirurgicznego Instytutu Hematologii w Warszawie
Ordynator i dyrektor: doc. dr A. Trojanowski Ordynator
Oddzialu V.Szpitala Zakaznego Nr 1: dr J. May.

(MEPROBAMATE) (TESTOSTERONE)

(JAUNDICE, OBSTRUCTIVE)

(BILE DUCTS, INTRAHEPATIC)

(HYPERBILIRUBINEMIA)

MAY, Jozef; AFEK-KAMINSKA, Maria; ZGORZEJSKI, Stanislaw

Torulosis (cryptococcosis) with description of personal cases. Polski
tygod. lek. 13 no.13:480-484 31 Mar 58.

1. Za Szpitala Zakaznego nr. I. w Warszawie ordynator: Jozef May i z
pracowni anatomo-patologicznej Kierownik: Maria Alek-Kaminska.
(CRYPTOCOCCOSIS, case reports
fatal, in child (Pol))

ZGORZELESKI, Stanislaw (Warszawa, ul. Wolska 37 m.14)

Unusual case of co-existing lithiasis, pancreatic cancer and diabetes.
Polski tygod. lek. 13 no.17:641-644 28 Apr 58

1. (Ze Szpitala Zakaźnego Nr 1 w Warszawie; ordynator: dr med. J. May)
(PANCHEAS, calculi,
with cancer & diabetes mellitus (Pol))
(PANCHEAS, neoplasms,
with calculi & diabetes mellitus (Pol))
(DIABETES MELLITUS, compl.
pancreatic cancer & calculi (Pol))

ZGORZELSKI, S.

Poland's export of furniture. p. 168.

PRZEMYSŁ DRZEWNY. Centralne Zarządy Przemysłów: Drzewnego, Meblarskiego, i Lesnego i Stowarzyszenie Inżynierów i Techników Leśnictwa i Drzewnictwa, Warszawa, Poland. Vol. 9, No. 6, June 1958.

Monthly List of East European Accession (EEAI), LC, Vol. 8, No. 9, Sept. 1959.

Uncl.

KUBICKI, Stefan; ZGORZELSKI, Stanislaw

Behavior of C reactive proteins (CRP) in jaundice. Polski tygod.
lek. 16 no.41:1563-1567 9 0 '61.

1. z Oddzialu Chorob Wewnetrznych Centralnego Szpitala Klinicznego
MSW w Warszawie; kierownik: prof. dr med. Stefan Kubicki i z IV
Oddzialu Szpitala Zakaznego Nr 1 w Warszawie; ordynator: dr med.
Jozef May.

(C REACTIVE PROTEIN) (JAUNDICE blood)

ZGRZHEBLOVS'KA, V.N. [Zhrezheblovs'ka, V.N.]; BLAVDZEVICH, A.A.

Changes in some indices of the protein function of the liver
under the effect of splenin. Fiziol. zhur. [Ukr.] 10 no.1:
121-122 '64. (MIRA 17:8)

1. Klinika infektsionnykh detskikh bolezney Kiyevskogo medi-
tsinskogo instituta im. akademika Bogomol'tsa.

ZGRZHEBLOVSKAYA, V.N., Cand Med Sci — (diss) "Change in the reactivity of children with scarlet fever under the effect of ^(with antireticular cytotoxic serum) AT&G treatment." Kiev, 1959, 10 pp (Kiev Order of Labor Red Banner ^o Inst im Academician A.A. Bogomolets) 200 copies (KL, 28-59, 131)

- 110 -

ZGRZHEBLOVSKAYA, V.N.

Changes in the phagocytic activity of blood leucocytes in scarlet fever as affected by antireticular cytotoxic serum. Fiziol.zhur.
(Ukr.) 2 no.3:123-130 My-Je '56. (MLRA 9:10)

1. Kiiv's'kiy medichniy institut, kafedra dityachikh infektsionikh zakhvoryuvan'.
(SERUM) (PHAGOCYTOSIS) (SCARLET FEVER)

ZGRZHEBLOVSKIY, E.A., inzh. (Omskaya doroga); PALKIN, V.S., inzh. (Omskaya doroga)

Practical conclusions obtained from the testing of arresters. Elek.
1 tepl.tiaga 4 no.2:17-18 F '60. (MIRA 13:6)
(Electric apparatus and appliances--Testing)
(Lightning protection)

GOL'TSOV, V.S., inzh.; ZGRZHEBLOVSKIY, E.A., inzh.

Effect of the location of the grounding of discharges in mountainous regions on the operation of automatic block systems.
Avtom., telem. i sviaz' 5 no.3:40-41 Mr '61. (MIRA 14:9)

1. Laboratoriya signalizatsii i svyazi Omskoy dorogi (for Gol'tsov). 2. Laboratoriya energosnabzheniya Omskoy dorogi (for Zgrzheblovskiy).
(Electric railroads--Signaling--Block system)
(Lightning protection)

KOZŁOWSKI, Jan; WUJAS, Kazimierz; ZGRZYBOWSKI, Antoni

Cutaneus zoonoses. Irzeg., czyn. 51 no.1:61-70 Ja-P '64

1. Z. Środka Szkolenia Dermatologii Studium Doskonalenia Lekarzy w Bydgoszczy (Kierownik dr. med. J. Kozłowski).

LAPIN, A.V. & ZEHRIN, A.G.

Modular structures of chromite and dunite as a result of unbalanced
eutectic crystallization. Dokl. AN SSSR 163 no. 5:1240-1243. Ag '65.
(MIRA 18:e)

J. Institut mineralogii, geokhimii i kristallogimii rockikh
elementov. Submitted March 2, 1965.

ZGUREV, G.

Case of lymphogrenulomatosis of the cecum. Khirurgiia,
Sofia 9 no.2:178-180 1956.

(HODGKIN'S DISEASE,
cecum, case report. (Bul))
(CECUM, neoplasms,
Hodgkin's dis., case report. (Bul))

ZGURIC, Stjepan, inz. (Beograd)

Trademarking of quality goods in Yugoslavia and abroad. Tehnika
Jugosuppl. Masinstvo 12 no.2:337 Fe '63.

ZQURIC, Stjepan, inz. (Beograd, Kosovska 49)

Specialized organization of engineers and technicians. Tehnika
Jug 18 no.3:423-425 Mr '63.

1. Clan Redakcionog odbora, "Tehnika."

ZGURIC, Stjepan, inz. (Beograd, Kosovska 49)

Yugoslav vocational periodicals and their publication problems. Tehnika Jug 18 no.9:1606-1610 S '63.

1. Clan Redakcionog odbora, "Tehnika".

ZGURIC, Stjepan, inz. (Beograd)

Role of engineers and technicians in the development of communes.
Technika Jug 17 no.7:1243-1244a J1 '62.

ZGURIC, S.

11th Special Meeting of the World Power Conference, held June 5-11, 1957, in Belgrade. p. 1257.

(TEHNIKA. Vol. 12, No. 8, 1957, Beograd, Yugoslavia)

SO: Monthly List of East European Accessions (EEAL) Lc. Vol. 6, No. 10, October 1957. Uncl.

ZGURIC, S.

"Quality mark," a possible method of special control of quality of our industrial products. p.1685. TEHNIKA. Beograd. Vol. 1C, no. 12, 1955.

SOURCE: East European Accessions List (EEAL), Library of Congress Vol. 5, No. 6, June 1956

SIMEUNOVIC, D.; ZGURIC, S. (Beograd)

Consultations on technical periodicals. Tehnika Jug 17 no.9:1639-1647 S '62.

1. Clan Redakcionog odbora, "Tehnika" (for Zguric).

ZGURIC, S.

ZGURIC, S. The field of application of the modern theory of electric signalling. p. 1669.

Vol. 11, No. 11, 1956.

TEHNIKA

TECHNOLOGY

Beograd, Yugoslavia

So: East European Accession, Vol. 6, No. 2, February 1957

ZOURIC, S.

"Feeding high-frequency equipment with electrical current." (p. 27,
(TELEKOMUNIKACIJE, Vol. 2, No. 4, Oct. 1953, Beograd, Yugoslavia)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 3,
No. 12, Dec. 1954, Unci.

Zguric, S

Understanding as a criterion of determining the quality of telephone transmission. p. 1557

Tehnika. Beograd, Yugoslavia. Vol. 14, no. 9, Sept. 1959.

Monthly List of East European Accessions (EEAI) LC Vol. 9, no. 2, Feb. 1960.

Uncl.

ZGURIC, Stjepan, ing.

First Congress of the Machine and Electrical Engineers and Technicians
of Yugoslavia. Tehnika Jug. 17 no.2:281-284 F '62.

(Engineers, Yugoslav)

SIMEUNOVIC, Dusan, dr inz., prof.; ZGURIC, Stjepan, inz. (Beograd)

Conditions and problems of the periodicals of the Union of Engineers and Technicians of Yugoslavia. Tehnika Jug 17 no.8:1431-1444 Ag '62.

1. Savez inzenjera i tehnicara Jugoslavije, Komisija za stampu.
2. Sumarski fakultet Univerziteta u Beogradu (for Simeunovic).

"APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R001964520003-1

ZGURIDI, A., kinorezhisser, narodnyy artist RSFSR.

In the Pacific Ocean. Znan. sila 32 no.7:25-28 J1 '57. (MLPA 10:8)
(Pacific Ocean-Diving, Submarine)
(Motion pictures, Documentary)

APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R001964520003-1"

ZGURKO, V.B.

36-65-5/10

AUTHOR: Zgurko, V.B.

TITLE: Succession of Synoptic Processes Leading to Sharp Breaks
in Temperature in the European Part of the USSR
(Preymstvennost' sinopticheskikh protsessov, privodyashchikh
k rezkim ponizheniyam temperatury na evropeyskoy
territorii SSSR)

PERIODICAL: Trudy Glavnay geofizicheskoy observatorii, 1956, Nr 65(127),
pp. 27-40 (USSR)

ABSTRACT: Material showing the continuity of atmospheric ultrapolar
and meridional processes in the European part of the USSR
is drawn from an analysis and summation of daily synoptic
maps. There are 14 figures, 2 tables and no references.

AVAILABLE: Library of Congress

Card 1/1

ZGURKO, V.B.

Successiveness of synoptic processes leading to severe cold spells.
Trudy GGO no.70:109-130 '57. (MIRA 10:11)
(Moscow Province--Cold)

ZGURKO, V. B. and VOROB'YEVA, Ye. V.

"Probability of Fall of Precipitation as a Function of Synoptic Conditions, Temperature, and Humidity of the Air in the Warm Half of the Year in the Southern European Territory of the USSR".

Trudy Gl. geofiz. observ., No 45, pp 27-35, 1954.

The conditions for fall of intramass and frontal precipitations in summer in south Ukraine and Volga region for 1946, 1947, 1948, and 1951 are clarified. Fall of precipitation is observed on the average in 28.5% of all cases of the occurrence of fronts (the occurrence of precipitation is predominantly frontal); here, the relative humidity in the entire region under investigation is not less than 65-70%. Fronts pass without precipitation when mean humidity is less than 45% in the western portions and less than 20% in the eastern portions.
(RZhGeol, No 9, 1955)

So: Sum No 884, 9 Apr 1956

ZGURKO, V.B.

Successiveness of synoptic processes causing sharp temperature drops
in the European territory of the U.S.S.R. Trudy GGO no.65:27-40
'56. (MIRA 10:?)

(Meteorology) (Atmospheric temperature)

ZGUROV, G.

Amyloid tumor of the tonsils. Khirurgiia, Sofia 8 no.5:459-460
'55.

(AMYLOIDOSIS,

ton sile)

(TONSILS, diseases,

amyloid tumor)

DERKACH, V.P.; ALEKSANDROV, V.Ya.; ZGUROVETS, L.Ya.

Using electroluminescence in mimic flowsheets. Avtom.i prib.
no.3:7-8 Jl-S '62. (MIRA 16:2)

1. Vychislitel'nyy tsentr AN UkrSSR.
(Electroluminescence) (Electric controllers)

ZGUROVSKI, A.

"Achievements of the Soviet Cement Industry. Tr. from the Russian", p. 23,
(ARKHITEKTURA I STROITELSTVO, Vol. 3, no. 9, 1953, Sofiya, Bulgaria).

SO: Monthly List of East European Accessions, LC, Vol. 3, No. 4, April 1954.

ZGUROVSKAYA, L.N.

Anatomical and physiological investigation of absorption,
growth and conducting roots in trees. Trudy Inst.lesa 41:5-
32 '58. (MIRA 12:1)

(Trees) (Roots (Botany)--Anatomy)

ZGUROVSKAYA, L.N.: ..

ZGUROVSKAYA, L.N.: "Anatomic-physiological investigation of the absorptive portion of the root system of forest crops". Moscow, 1955. Inst of Forestry, Acad Sci USSR. (Dissertations for the Degree of Candidate of Biological Sciences)

SO: Knizhnaya letopis' No 44, 29 October 1955! Moscow.

ZGUROVSKAYA, L.N.; TSEL'NIKER, Yu.L.

Effect of watering after a long drought on transpiration and absorption root condition in tree varieties in the Derkul Steppe.
Fiziol.rast.2 no.4:346-353 Jl-Ag'55. (MIRA 8:12)

1. Institut lesa Akademii nauk SSSR, Moscow
(Plants--Transpiration) (Roots (Botany))

ZGUROVSKAYA, L.N.

Physiology of young growths of pine in raised and lowland bogs. Trudy Inst. biol. UFAN SSSR no. 43:25-82 '65
(MIRA 19:1)

1. Institut lesa i drevesiny Sibirskogo otdeleniya AN SSSR.

ZGUROVSKAYA, L.N.

Study of the needles of *Pinus silvestris* L. and *Pinus sibirica* (Rupr.) Mayr. in various types of swamps. Bot. zhur. 50 no.2:234-237 F '65.

(MIRA 18:12)

1. Institut lesa i drevesiny Sibirs'kogo otdeleniya AN SSSR, Krasnoyarsk. Submitted April 10, 1964.

USSR/General and Special Zoology. Insects.

P-2

Abs Jour : Akad Znur - Biol., № 15, 1953, № 60.65

Author : Zgurskaya G., Pozdnyshov P.M.

Inst : Rostov na/Donu State Pedagogical Institute

Title : The Reaction of the Eurygaster Integriceps to the
Odors of Various Substances Under Laboratory
Conditions.

Orig Pub : Sb. stud. nauchn. rabot. Rostovsk.-n/D Gos. ped.
in-t, 1957, № 1, (22), 127-134

Abstract : According to experimental data the odor of formic
acid had a negative (repulsing) effect on the
Eurygaster integriceps in 85% of the cases, while
in 51.2% of the cases the odor of ammonia had a
positive (attracting) effect.

Card : 1/1

TOLSTOY, M.I.; OSTAFTYCHUK, I.M.; SHARAY, N.Ya.; ZGUROVSKIY, V.M.

Utilization of mass determination data of the magnetic
susceptibility of bedrocks for the purposes of petrological
and geochemical studies. Shor. nauch. rab. Kiev. un. no. 1:79-96
'63. (MIRA 18:11)

ZGURSKAYA, Ye. I.

137-58-3-5941

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 3, p 212 (USSR)

AUTHOR: Zgurskaya, Ye. I.

TITLE: The Effect of Phosphorus on the Properties of Spheroidized Cast Iron (Vliyaniye fosfora na svoystva chuguna s sharovidnoy formoy grafita)

PERIODICAL: Vestn. tekhn. inform. M-vo stankostroit. i instrum. prom-sti SSSR, 1957, Nr 4, pp 24-27

ABSTRACT: Studies were conducted in order to determine the effect of P on the properties of cast iron with spheroidal graphite containing 3.1 percent C, 2.0-2.6 percent Si, 0.5-0.6 percent Mn, 0.003-0.004 percent S, and 0.04-0.08 percent Mg. Increasing the content of P to 0.3 percent sharply increases the tendency toward the formation of hot and cold cracks, shrinkage blisters, and warping. The following characteristics are also impaired by the addition of P: σ_{bt} decreases from 55 kg/mm² at 0.10 percent P to 35 kg/mm² at 0.45 percent P; a_k decreases from 7.5 kg/cm² at 0.09 percent P to 0.75 kg/cm² at 0.3 percent P. It is recommended that the P content in cast iron articles operating under

Card 1/2

137-58-3-5941

The Effect of Phosphorus on the Properties of Spheroidized Cast Iron
impact and fracture loads be no greater than 0.15 percent, whereas the P
content in articles operating under friction should not exceed 0.2 percent.

Card 2/2

ZGURSKAYA, Ye.I.

USSR/Solid State Physics - Phase Transformation in Solid Bodies E-5

Abs Jour : Ref Zhur - Fizika, No 1, 1958, 964

Author : Zgurskaya, Ye.I.

Inst :

Title : Effect of Phosphorus on the Properties of Cast Iron With Spheroidal Form of Graphite.

Orig Pub : Vestn. takhn. inform. M-vo stankostroit- i instrum. prom-sti SSSR, 1957, No 4, 24-27

Abstract : No abstract.

Card 1/1

ZGURSKIY, Anatoliy Yefimovich; SHERSTYUK, Rudol'f Onisiforovich;
KOSTENKO, M.A., red.; KRYZHOVA, M.L., red.izd-va; TURKINA,
Ye.D., tekhn.red.

[Inductive transducer for determining the number of steel rods]
Indukтивный датчик для определения количества стальных
стержней. Свердловск, Гос.научно-техн.изд-во по черной
и цветной металлургии, Свердловское отд-ние, 1960. 18 p.
(MIRA 14:6)

(Transducers) (Metal detectors)

ZGURSKIY, K.N.

Four-cylinder frictional LF-4 draw works for a gantry crane.
Mash. i neft. obor. no.8:27-29 '63. (MIRA 17:6)

1. Gosudarstvennyy institut po proyektirovaniyu predpriyatiy
dlya dobychi nefti s morskogo dna.

"APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R001964520003-1

ASHRAFOV, M.R., inzh.; ZGURSKIY, K.N., inzh.

Pile driver friction winlass having a 4-ton capacity. Stroi.
(MIRA 18:7)
1 dor. mash. 9 no.2:24-25 F '64.

APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R001964520003-1"

KULIYEV, I.P.; ZGURSKIY, K.N.; ASHRAFOV, M.R.

Some characteristics of drilling barge equipment. Azerb.
neft. khoz. 41 no.12:19-21 D '62. (MIRA 16:7)

(Oil well drilling, Submarine--Equipment and supplies)

ZGURSKIY, O.; MOREYNIS, I.; OSTROWSKIY, I.

Repeated use of water for washing trucks. Avt.transp. 34 no.5:
23 My '56.
(Motortrucks--Maintenance)

BYKOV, L.N., inzh.; ZGURSKIY, V.A., inzh.

BRT-200M type device for reversing rectified current in a
dimensional silverplating tank. Energ. i elektrotekh. prom.
no.4:33-36 O-D '64. (MIRA 18:3)

"APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R001964520003-1

BYKOV, L.N., inzh.; ZGURSKIY, V.A., inzh.; ZAL'TSMAN, L.G., inzh.;
CHERNAYA, S.M., inzh.

Using the BRT-200M current reverser in silver plating.
(MIPA 18:6)
Mashinostroenie no. 3:81-83 My-Je '65.

APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R001964520003-1"